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SECTION A.—PHYSICS.

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Abstract No. 102, line 1 : *for* C. C. Comstock, *read* G. C. Comstock.
Abstract No. 121, line 2 : *for* Hulbert, *read* Hulburt.
Abstract No. 283, p. 109, line 6 : *for* Grummach, *read* Grunmach.
Abstract No. 380, line 1 : *for* E. Luchsinger, *read* F. Luchsinger.
Abstract No. 407, line 2 : *for* R. S. Milliken, *read* R. S. Mulliken.
Abstract No. 577, line 3 : *for* Herszfinkiel, *read* Herszfinkel.
Abstract No. 748, line 2 : *for* Popular Astron. 29. Nos. 5 and 7, pp. 1–25, May and Sept., 1921, *read* Popular Astron. 29. pp. 251–265, and 382–392, 1921.
Abstract No. 1127, line 2 : *for* J. G. Priest, *read* I. G. Priest.
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Abstract No. 1414, line 1 : *for* load, *read* lead.
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LIST OF JOURNALS & ABBREVIATIONS USED THEREFOR

Abbreviation.	Full Title.
Accad. Lincei, Atti	Atti della Reale Accademia dei Lincei, Roma.
Accad. Sci. Med. e. Nat., Ferrara	Accademia della Scienze Medicale et Naturale, Ferrara.
Accad. Sci. Torino, Atti	Atti della Reale Accademia delle Scienze di Torino.
Aircraft Engineering	Aircraft Engineering.
Akad. Wiss. Wien, Ber.	Sitzungsberichte der Akademie der Wissenschaften, Wien, Mathematischnaturwissenschaftliche Klasse.
Am. Acad., Proc.	Proceedings of the American Academy of Arts and Sciences.
Am. Chem. Soc., J.	Journal of the American Chemical Society.
Am. Electrochem. Soc., Trans.	Transactions of the American Electrochemical Society.
Am. Illum. Eng. Soc., Trans.	Transactions of the American Illuminating Engineering Society.
Am. I.E.E., J.	Journal of the American Institute of Electrical Engineers.
Am. Inst. Mining Eng., Bull.	Bulletin of the American Institute of Mining Engineers (now Mining and Metallurgy).
Am. J. Sci.	American Journal of Science.
Am. Phil. Soc., Proc.	Proceedings of the American Philosophical Society.
Am. Soc. for Testing Mat.	American Society for Testing Materials.
Am. Soc. Mech. Eng., J.	Journal of the American Society of Mechanical Engineers (now Mechanical Engineering).
Ann. de l'Obs. Astron. de Tokyo	Annales de l'Observatoire Astronomique de Tokyo.
Ann. de Physique	Annales de Physique.
Ann. d. Physik	Annalen der Physik.
Annales des Postes, Télé.	Annales des Postes, Télégraphes et Téléphones.
Arch. d'Él. Médicale	Archives d'Électricité Médicale.
Arch. des Sciences	Archives des Sciences Physiques et Naturelles, Genève.
Archiv f. Elektrot.	Archiv für Elektrotechnik.
Ark. f. Mat. Astron. och Fysik, Stockholm	Arkiv för Matematik, Astronomie och Fysik, Stockholm.
Assoc. Ing. Él. Liége, Bull.	Association des Ingénieurs Électriciens, Bulletin, Institut Electrotechnique Montefiore, Liége.
Astron. J.	Astronomical Journal.
Astron. Nachr.	Astronomische Nachrichten.
Astron. Soc. Pacific, Publ.	Publications of the Astronomical Society of the Pacific.
Astronomie	L'Astronomie.
Astrophys. J.	Astrophysical Journal.
Audion	L'Audion.
Automotor J.	Automotor Journal.
Bull. Astronomique	Bulletin Astronomique.
Bureau of Mines, Techn. or Sci. Papers	Technical or Scientific Papers of the Bureau of Mines (U.S. Department of the Interior).
Bureau of Standards, Bull.	Bulletin of the Bureau of Standards, Washington.
Calcutta Math. Soc., Bull.	Bulletin of the Calcutta Mathematical Society.
Cambridge Phil. Soc., Proc.	Proceedings of the Cambridge Philosophical Society.
Cambridge Phil. Soc., Trans.	Transactions of the Cambridge Philosophical Society.
Canad. Elect. News	Canadian Electrical News.
Chem. and Met. Eng.	Chemical and Metallurgical Engineering.
Chem. News	Chemical News and Journal of Physical Science.

Abbreviation.	Full Title.
Chem. Soc. J., Trans.	Journal and Transactions of the Chemical Society of London.
Comptes Rendus	Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences.
Danske Vidensk. Selskabs., Med.	Meddelelser det kgl. danske Videnskabernes Selskabs.
Dominion Obs. Ottawa, Publ.	Publications of the Dominion Observatory, Ottawa
Elect. J.	Electric Journal.
Electrician	The Electrician.
Electrot. Laborat. Tokyo, Japan, Researches	Researches of the Electrotechnical Laboratory, Tokyo, Japan.
Elek. u Maschinenbau	Elektrotechnik und Maschinenbau.
Elekt. Zeits.	Elektrotechnische Zeitschrift.
Elettrotecnica	L'Elettrotecnica.
El. Rev.	The Electrical Review (London).
El. Times	Electrical Times.
El. World	Electrical World.
Engineer	Engineer.
Engineering	Engineering.
Engineers and Engineering	Engineers and Engineering.
Eng. News-Record	Engineering News-Record.
Faraday Soc., Trans.	Transactions of the Faraday Society.
Frank. Inst., J.	Journal of the Franklin Institute.
Gen. El. Rev.	General Electric Review.
Harvard Coll. Obs., Bull.	Bulletin of the Harvard College Observatory.
Harvard Coll. Obs., Circ.	Circular of the Harvard College Observatory.
Illum. Eng., London	Illuminating Engineer.
Imp. Marine Obs. Kobe, Japan, Mem.	Memoirs of the Imperial Marine Observatory, Kobe, Japan.
Indian Assoc. for Cultivation of Science, Proc.	Proceedings of the Indian Association for Cultivation of Science.
Inst. Civ. Eng., Proc.	Proceedings of the Institution of Civil Engineers.
Inst. El. Eng., J.	Journal of the Institution of Electrical Engineers.
Inst. El. Eng. of Japan, J.	Journal of the Institution of Electrical Engineers of Japan.
Inst. Eng. and Shipbuilders, Trans.	Transactions of the Institution of Engineers and Shipbuilders in Scotland.
Inst. Mech. Eng., J.	Journal of the Institution of Mechanical Engineers.
Inst. Naval Architects, Trans.	Transactions of the Institution of Naval Architects.
Inst. of Metals, J.	Journal of the Institute of Metals.
Inst. Radio Eng., Proc.	Proceedings of the Institute of Radio Engineers.
Iron and Steel Inst., J.	Journal of the Iron and Steel Institute.
Jahrb. d. drahtl. Tele.	Jahrbuch der Drahtlosen Telegraphie und Telephonie.
Jahrb. d. Radioakt.	Jahrbuch der Radioaktivität und Elektronik.
Japanese Journ. Phys.	Japanese Journal of Physics.
J. de Physique et le Radium	Le Journal de Physique et le Radium.
J. Phys. Chem.	Journal of Physical Chemistry.
Journ. Télégraph.	Journal Télégraphique.
K. Akad. Amsterdam, Proc.	Proceedings of the Koninklijke Akademie van Wetenschappen te Amsterdam.
Kansas Univ. Sci. Bull.	The Kansas University of Science Bulletin.
Kyoto Coll. Sci., Mem.	Memoirs of the College of Science, Kyoto Imperial University.
Kyushu Univ. Coll. Eng., Mem.	Memoirs of the Kyushu Imperial University College of Engineering.
Lick Observat., Bull.	Bulletin of the Lick Observatory.
Manchester Phil. Soc., Mem.	Memoirs and Proceedings of the Manchester Literary and Philosophical Society.
Mechanical Engineering	Mechanical Engineering (Am. Soc. M.E.).
Meteorolog. Obs. Japan, Bull.	Bulletin of the Meteorological Observatory, Japan.
Meteorolog. Office, Prof. Notes	Professional Notes of the Meteorological Office.

Abbreviation.	Full Title.
Meteorolog. Zeits.	Meteorologische Zeitschrift.
Mining and Metallurgy	Bulletin of the American Institute of Mining and Metallurgical Engineers.
Monthly Weather Rev.	Monthly Weather Review.
Nat. Acad. Sci., Proc.	Proceedings of the National Academy of Sciences.
Nat. Research Council, Bull.	Bulletin of the National Research Council.
Nature	Nature.
N. Cimento	Nuovo Cimento.
New Zealand J. of Sci.	New Zealand Journal of Science and Technology.
Observatory	The Observatory.
Onde Elec.	L'Onde Électrique.
Optical Soc. America, J.	Journal of the Optical Society of America.
Optical Soc., Trans.	Transactions of the Optical Society.
Phil. Mag.	Philosophical Magazine and Journal of Science.
Phot. J.	Photographic Journal.
Phys. Math. Soc. Japan, Proc.	Proceedings of the Physico-Mathematical Society of Japan.
Phys. Rev.	Physical Review.
Phys. Soc., Proc.	Proceedings of the Physical Society of London
Phys. Zeits.	Physikalische Zeitschrift.
Power	Power.
Preuss. Akad. Wiss. Berlin, Ber.	Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin.
Radioélectricité	Radioélectricité.
Radio Rev.	Radio Review (now Wireless World and Radio Review).
Rev. de Mét.	Revue de Métallurgie.
Rev. d'Optique	Revue d'Optique Théorique et Instrumentale.
Rev. Gén. d'El.	Revue Générale de l'Électricité.
Riv. Ottica e Meccan.	Rivista d'Ottica e Meccanica di Precisione.
Röntgen Soc., J.	Journal of the Röntgen Society.
Roy. Astron. Soc. Canada, J.	Journal of the Royal Astronomical Society of Canada.
Roy. Astron. Soc., M.N.	Monthly Notices of the Royal Astronomical Society.
Roy. Dublin Soc., Proc.	Proceedings of the Royal Dublin Society.
Roy. Inst., Proc.	Proceedings of the Royal Institution of Great Britain.
Roy. Irish Acad., Proc.	Proceedings of the Royal Irish Academy.
Roy. Meteorolog. Soc., J.	Quarterly Journal of the Royal Meteorological Society.
Roy. Soc. Canada, Trans.	Transactions of the Royal Society of Canada.
Roy. Soc. Edinburgh, Proc.	Proceedings of the Royal Society of Edinburgh.
Roy. Soc., Phil. Trans.	Philosophical Transactions of the Royal Society of London.
Roy. Soc., Proc.	Proceedings of the Royal Society of London.
Roy. Soc. Tasmania, Proc.	Proceedings of the Royal Society of Tasmania.
Roy. Soc. Victoria, Proc.	Proceedings of the Royal Society of Victoria.
Schweiz. Elektrot. Verein, Bull.	Bulletin des Schweizerischen Elektrotechnischen Vereins.
Smithsonian Misc. Coll.	Smithsonian Miscellaneous Collections.
Soc. Arts, J.	Journal of the Royal Society of Arts.
Soc. Belge Élect., Bull.	Bulletin de la Société Belge des Électriciens.
Soc. Chim. Pologne, Ann.	Roczniki Chemji, Warszawa.
Soc. Franç. Élect., Bull.	Bulletin de la Société Française des Électriciens.
Soc. Spettros. Ital., Mem.	Memorie della Società degli Spettroscopisti Italiani.
Teknisk Tidskrift	Teknisk Tidskrift.
Teleg. u. Fernspr. Techn.	Telegraphen und Fernsprech Technik.
Teleg. without Wires, Russia	Telegraphy and Telephony without Wires, Nijnij-Nowgorod.
Terrest. Magn.	Terrestrial Magnetism and Atmospheric Electricity.
Tôhoku Math. J.	Tôhoku Mathematical Journal.

Abbreviations.	Full Title.
Tôhoku Univ., Sci. Reports	Science Reports of the Tôhoku Imperial University.
Tokyo Univ. Coll. of Eng., J.	Journal of the Tokyo Imperial University College of Engineering.
T. S. F.	Télégraphie sans Fil: Revue Mensuelle de Radiotélégraphie et Radiotéléphonie.
Union Obs. S. Africa, Circ.	Circulars of the Union Observatory of South Africa.
Univ. of Illinois Eng. Exp. Sta., Bull.	Bulletin of the Engineering Experiment Station of the University of Illinois.
Washington Acad. Sci., J.	Journal of the Washington Academy of Sciences.
Wireless Age.....	Wireless Age.
Wireless World and Radio Rev. ...	Wireless World and Radio Review.
Yerkes Observat., Publ.	Publication of the Yerkes Observatory.
Zeits. angew. Chem.	Zeitschrift für angewandte Chemie.
Zeits. anorg. Chem.....	Zeitschrift für anorganische Chemie.
Zeits. Elektrochem.....	Zeitschrift für Elektrochemie.
Zeits. f. Metallkunde	Zeitschrift für Metallkunde (formerly Internationale Zeitschrift für Metallographie).
Zeits. f. Physik	Zeitschrift für Physik.
Zeits. Instrumentenk.	Zeitschrift für Instrumentenkunde.
Zeits. Math. u. Mechanik	Zeitschrift für angewandte Mathematik und Mechanik.
Zeits. phys. Chem.	Zeitschrift für physikalische Chemie.
Zeits. techn. Physik.	Zeitschrift für technische Physik.
Zeits. Vereines deutsch. Ing.....	Zeitschrift des Vereines deutscher Ingenieure.
Zeits. wiss. Phot.	Zeitschrift für wissenschaftliche Photographie, Photophysik und Photochemie.